204.2(8) - Solid Refractive Index

SRM 1822a is intended for use in checking the accuracy of visible refractometers based on the immersion of small glass particles in oil. It consists of a soda-lime glass plate, approximately $25 \text{ mm} \times 25 \text{ mm} \times 3 \text{ mm}$, with ground faces. It is designed to be gradually consumed in use by breaking off pieces that are crushed into small particles for oil immersion refractomety.

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PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

		,	Wavelength	
SRM	Description	Unit Size	(nm)	n (at 22 °C)
1822a	Refractive Index Standard	1 glass plate(25x25x3mm)	480.1 501.7 508.7 546.2 587.7 644.0	1.526132 ± 1.6x10 ⁻⁵ 1.524468 ± 1.6x10 ⁻⁵ 1.523971 ± 1.6x10 ⁻⁵ 1.521629 ± 1.6x10 ⁻⁵ 1.519535 ± 1.6x10 ⁻⁵ 1.517277 ± 1.6x10 ⁻⁵